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SOURCE

Elektricheskiye Stantsii, No 5, 1950.NEW SOVIET BOOKS ON POWER

"Variable Water Expenditure in Heating Lines" (Peremennyy raskhod vody v teplovykh setyakh), V. K. Dyuskin, Gosenergoizdat, Moscow-Leningrad, 1949, 118 pp, 4 rubles, 25 kopeks.

Gives theoretical principle of using quantitative-qualitative regulation in heat lines and heating systems. Describes results of using this method on an experimental basis and in district heating and power plants in actual operation. Analyzes effects of initial regulating, water-cooling in the pipes, and laminar flow in the pipes on the operation of heating systems. Analyzes measures increasing the hydraulic stability of heating systems.

"Execution of Concrete and Reinforced Concrete Work in the Construction of Hydroelectric Power Stations" (Proizvodstvo betonnykh i zhelezobetonnykh rabot pri stroitel'stve gidrostantsiy), V. N. Yefremov, Gosenergoizdat, Moscow-Leningrad, 155 pp, 7 rubles, 50 kopeks.

Discusses problems of preparing the foundations of structures. the execution of concrete and allied work -- guniting, cementing, hydrolysis etc. The book is mainly compiled from experience of USSR hydroengineering construction, and contains information on the application of new techniques in building concrete and reinforced concrete structure.

"The Installation of Boiler Equipment" (Montazh kotel'nogo oborudovaniya), V. A. Zaydel', Gosenergoizdat, Moscow-Leningrad, 1949, 228 pp, 7 rubles, 45 kopeks.

Consists of three parts. Part I is on the work of riggers, boiler-makers and erectors; Part II, the installation of steam boiler units; Part III, the installation of boiler auxiliary equipment. There is a separate chapter on the organization of the working area, labor, and accident prevention.

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"Guide to the AC Laboratory" (Rukovodstvo k laboratorii peremennykh tokov), P. L. Kalantarov, Gosenergoizdat, Moscow-Leningrad, 1949, 188 pp, 6 rubles, 85 kopeks.

Intended for laboratory studies on AC circuits. Describes AC methods of measurement, instruments and laboratory installations, and also the investigation of condensers, mercury arc rectifiers, transient states, etc.

"General Equations of Steady-State Movement of a Current with Variable Discharges, and Their Solution" (Obshchiye uravneniya ustanovivshegosya dvizheniya potoka s peremennym raskhodom i ikh resheniya), A. S. Kozhevnikov, Gosenergoizdat, Moscow-Leningrad, 1949, 87 pp, 3 rubles, 50 kopeks.

Gives derivation of general differential equations of steady-state fluid flow with variable discharges and their solutions with and without allowing for resistances. Intended for scientific workers and engineers of specialized hydroengineering planning organizations.

"Handbook for Power Station Heat Engineers" (Spravochnik dlya teploekhnikov elektrostantsiy), A. M. Komarov and V. V. Luknitskiy, Gosenergoizdat, Moscow-Leningrad, 1949, 359 pp, 30 rubles.

Revised, enlarged edition of handbook published in 1939. Contains modern data on boiler and turbine installations, including high-pressure units. Gives data on the heat component of the power station as a whole, including both basic problems of a design character and instructions on the operation of equipment. Book is revised and enlarged. Intended for technical personnel whose work brings them into contact with power equipment.

"An Outline of the Development of the Theory of Heat in the Work of Russian Scientists of the 18th and 19th Centuries" (Ocherk razvitiya teorii teploty v rabotakh russkikh uchenykh XVIII i XIX stoletiy), S. S. Kutateladze and R. V. Tsukerman, Gosenergoizdat, Moscow-Leningrad 1949, 156 pp, 9 rubles.

Contains systematic exposition of work of Lomonosov, Polzunov, Umov, Orlov, and other Russian scientists on the theory of heat, describing research on steam boiler design.

"Symposium on Problems of Engineering Thermodynamics" (Sbornik zadach po tekhnicheskoy termodinamike), Gosenergoizdat, Moscow-Leningrad, 1949, 222 pp, 11 rubles, 30 kopeks.

Contains problems on every division of the course "Engineering Thermodynamics" for the heat engineering branches of higher educational institutions for power. Special attention is drawn to the "Steam Power Installations" section. There are full solution patterns to some of the problems and answers to others.

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